



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/803,417

03/18/2004

Ali Akgun

03-1048

5546

20306

7590

05/22/2007

MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP
300 S. WACKER DRIVE
32ND FLOOR
CHICAGO, IL 60606

EXAMINER

FERGUSON, KEITH

ART UNIT

PAPER NUMBER

2618

MAIL DATE

DELIVERY MODE

05/22/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/803,417	Applicant(s) AKGUN ET AL.	
	Examiner Keith T. Ferguson	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 February 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) 50-53 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-49 and 54 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2618

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1,2,6-20,21,22,24,25,26,32-49 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buddhikot et al. in view of Eng et al., newly recited reference.

Regarding claims 1,7,9-20,21,22,24,25-48 and 54, Buddhikot et al. discloses a method (fig. 3)/wireless network (fig.1)/server (system) (fig. 1 number 14 and 16) comprising: a mobile station inserting an access point identifier into a start message (mobile registration message) (P:0022 line 1 through P:0023 line 22) (fig. 2 number 42), the access point identifier identifying an access point into a wireless network (P:0023 lines 13-20); and sending the mobile registration message to a wireless network agent (home network) (fig. 2 number 26), via the access point (P:0023 line 13 through P:0024 line 24). Buddhikot et al. further discloses the wireless network agent sending the access point identifier to an authentication, authorization, accounting (AAA) server (P:0017 line 1 through P:0018 line 24); and the AAA server providing a location-based authentication service to a mobile station based on the access point identifier (P:0017 line 1 through P:0018 line 24 and P:0022 line 1 through P:0024 line 25). Buddhikot et al. differs from claims 1,20,25 and 54 of the present invention in that it does not explicit disclose inserting an access point identifier into a mobile registration message at a mobile station and sending the mobile registration message from the mobile station. Eng et al. teaches a mobile station (m2) sends a reassociation

Art Unit: 2618

registration message including an access point identifier (AP21-2) when roaming from AP21-2 to AP21-3 (col. 6 lines 6-46). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Buddhikot et al. with inserting an access point identifier into a mobile registration message at a mobile station and sending the mobile registration message from the mobile station in order for the mobile station to register with the foreign network and allow the foreign network to notify the mobile station home network that it is now registered within its area, which would reduce the load on the mobile station home network, as taught by Eng et al..

Regarding claims 2 and 26, Buddhikot et al. discloses wherein the access point broadcasts the access point identifier (fig. 2 number 30), the method further comprising obtaining the access point identifier from the broadcast (fig. 2 number 30), before inserting the access point identifier into the mobile registration message (i.e. before the access point sends its identifier signal 42 to the home network) (fig. 2).

Regarding claims 6, 32, 33 and 49, Buddhikot et al. discloses the mobile registration message is a mobile internet (IP) registration request (fig. 1 and P:0017 line 1 through P:0018 line 4).

Regarding claims 8 and 39, Buddhikot et al. the wireless network agent is selected from the group consisting of a home agent and a foreign agent (fig. 2 numbers 12 and 26).

3. Claims 3, 5, 23 and 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buddhikot et al. in view of Eng et al. as applied to claims 1, 2, 20 and 25 above and in further view of Molteni et al..

Regarding claims 3 and 30, the combination of Buddhikot et al. and Eng et al. differs from claims 3 and 30 of the present invention in that they do not disclose the access point a broadcast which identifies a service set identifier (SSID), the SSID identifying the access point; and wherein inserting the

Art Unit: 2618

access point identifier into the mobile registration message comprises inserting the SSID into the mobile registration message. Molteni et al. teaches an access point broadcasts beacon service set identifier (SSID) (P:0031 lines 1-10) which a wireless station monitors when seeking available access points for a wireless connection (P:0039 lines 1-6 and P:0044 line 1 through P:0051 line 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made To modify the combination of Buddhikot et al. and Eng et al. with the access point broadcast which identifies a service set identifier (SSID), the SSID identifying the access point; and wherein inserting the access point identifier into the mobile registration message comprises inserting the SSID into the mobile registration message in order for the mobile node to determine the identity of the AP within the foreign network when seeking a wireless LAN connection, as taught by Molteni et al..

Regarding claims 5,23 and 27-29, the combination of Buddhikot et al. and Eng et al. differs from claims 5,23 and 27 of the present invention in that it does not disclose the mobile station comprises memory for storing the access point identifier, the method further comprising retrieving the access point identifier from the memory before inserting the access point identifier into the mobile registration message. Molteni et al. teaches a wireless station comprising a WLAN database (fig. 5a) for storing the access point identifiers (P:0044 lines 1-4) and using the database when making a wireless connection to a WLAN (P:0042 line 1 through P:0051 line 6). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Buddhikot et al. and Eng et al. with the mobile station comprises memory for storing the access point identifier, the method further comprising retrieving the access point identifier from the memory before inserting the access point identifier into the mobile registration message in order for the mobile node to select the access point from it memory when the mobile node is near the foreign network which may speed up authentication between the mobile node and the foreign network by applying authentication information from the mobile node memory to the foreign network when seeking a wireless connection, as taught by Molteni et al..

Art Unit: 2618

4. Claims 4 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buddhikot et al. in view of Eng et al. and Molteni et al. as applied to claims 1,3,25 and 30 above and in further view of Igarashi et al..

Regarding claims 4 and 31, the combination of Buddhikot et al., Eng et al. and Molteni et al. differs from claims 4 and 31 of the present invention in that they do not disclose the SSID is an extended SSID that identifies the at least one access point. Igarashi et al. teaches a SSID is an extended SSID that identifies the at least one access point (P:0050 lines 1-5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Buddhikot et al., Eng et al. and Molteni et al. with the SSID is an extended SSID that identifies the at least one access point in order for the mobile node to select a particular access point to send a start signal for connection, as taught by Igarashi et al..

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated

Art Unit: 2618

from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (571) 272-7865. The examiner can normally be reached on 6:30am-4:30 pm.

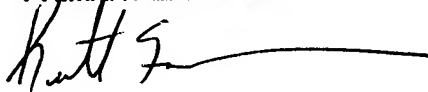
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Keith Ferguson
Art Unit 2618
May 2, 2007

KEITH FERGUSON
PRIMARY EXAMINER

A handwritten signature in black ink, appearing to read 'Keith F.', followed by a long horizontal line.